

**In the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended): A non-compliant medical balloon, where the non-compliant medical balloon may be changed from a deflated state to an inflated state by increasing pressure within applied to an interior surface of the balloon, comprising:

a first fiber layer;

5 a second fiber layer over said first fiber layer such that the fibers of the first fiber layer and the fibers of the second fiber layer form an angle;

a binding layer coating the first fiber layer and said second fiber layer;

wherein [[an]] the interior surface area of the non-compliant medical balloon remains substantially unchanged when the balloon changes from a deflated state to an inflated state.

2.(Original): The non-compliant medical balloon of claim 1, wherein said first fiber layer comprises inelastic fibers.

3.(Original): The non-compliant medical balloon of claim 1, wherein said first fiber layer comprises a plurality of parallel first fibers.

4.(Original): The non-compliant medical balloon of claim 1, further comprising an adhesive layer adhering to said first fiber layer.

5. (Original): The non-compliant medical balloon of claim 1, wherein said second fiber layer comprises a plurality of parallel second fibers.

6. (Original): The non-compliant medical balloon of claim 1, wherein said angle is substantially a right angle.

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7.(Original): The non-compliant medical balloon of claim 1, wherein said angle does not change when the balloon changes from a deflated state to an inflated state.

8.(Original): The non-compliant medical balloon of claim 3, wherein said plurality of parallel first fibers are substantially parallel to the longitudinal axis of the balloon.

9. (Original): The non-compliant medical balloon of claim 5, wherein said plurality of parallel second fibers are substantially transverse to the longitudinal axis of the balloon.

10. (Original): The non-compliant medical balloon of claim 1, wherein said binding layer is a polymeric coating.

11.(Original): The non-compliant medical balloon of claim 10, wherein said polymeric coating is formed of a polymer.

12. (Original): The non-compliant medical balloon of claim 10, wherein said polymeric coating is formed of a copolymer.

13.(Original): The non-compliant medical balloon of claim 3, wherein said parallel first fibers each have a thickness of about 0.0005 inch.

14.(Original): The non-compliant medical balloon of claim 5, wherein said parallel second fibers each have a thickness of about 0.0005 inch.

15.(Original): The non-compliant medical balloon of claim 5, wherein said parallel second fibers have a wind density of approximately 50 wraps per inch.

16.(Original): The non-compliant medical balloon of claim 1, wherein said angle is about ten degrees.

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17.(Original): The non-compliant medical balloon of claim 1, further comprising a third fiber layer on said second fiber layer.

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